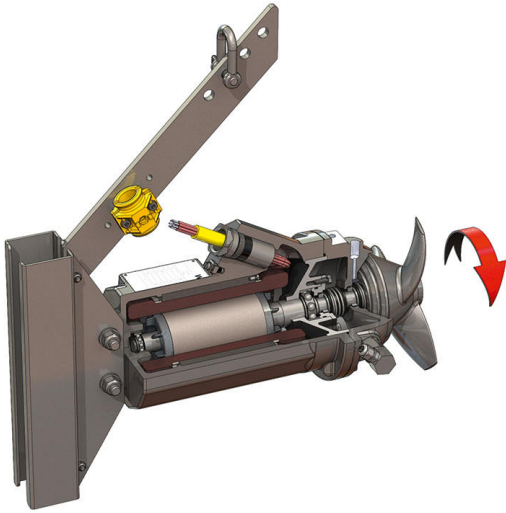


Pioneering for You

wilo

Submersible mixer

Flumen OPTI-TR 20-1.174-4/13 S7



Materials

Motor housing	AISI 316
Static gaskets	FKM Fluoro rubber
Motor shaft	AISI 420
Sealing chamber	AISI 316
Propeller	AISI 316

Unit

Power consumption at duty point $P_{1.1}$	1.07 hp
Max. thrust F	31.5 lbf
Thrust to power ratio	29 lbf/hp
Max. weight* m	88.2 lb
Explosion protection ATEX ATEX	optional
Explosion protection FM FM	optional
Protection class motor	IP68

Propeller

Propeller model	3-blade propeller with self-cleaning hub; clogging- and entwining-free
Nominal propeller diameter D_{nom}	7.9 in (")
Propeller speed n	1658 RPM
Transmission ratio	1.000

Filling quantities and types

Filling sealing chamber	White oil
Fill volume sealing chamber V	0.1 US gal

Motor/electronics

Motor type	T 12-4/13GRF (Ex)
Motor design	Submersible motor – surface-cooled
Mains connection	3~460 V, 60 Hz
Rated current I_N	3.85 A
Starting current - direct I_A	13.70 A
Power consumption $P_{1 max}$	3.2 hp
Rated power P_2	2.4 hp
Speed original n	1658 RPM
Motor efficiency class	-
Efficiency η_M	77.8 %
Power factor $\cos \varphi$	0.76
Min. fluid temperature T_{min}	37 °F
Max. fluid temperature T_{max}	104 °F
Max. immersion depth	66 ft
Insulation class	H
Max. switching frequency t	15 rph
min. switching break t	3 min
Starting torque M	13.5 lbf ft
Moment of inertia	0.05 lb ft ²
Motor bearings	2 grooved ball bearing

*maximum weight including accessories